

Georgia Tech Neighborhood

1. Introduction

Part of the interest of many of the scientist in the Data Science area is focused of knowing the Universities and the amenities it could offer for getting the best of each one while studying and living.

Georgia Tech as one of the most important universities from United States through Engineering and the Data Science itself is such a good reference point for deploying this quite of studies.

So, the main idea is to learn a little bit from this University, Atlanta and the venues we could find around while looking for the possibility of opening a Coffee shop or Cafeteria at any place nearby.

2. Data

Many sources are considered for this deployment:

- <https://www.google.com/maps/d/viewer?msa=0&mid=1SO0lX0XNxZeGPOD0E-yrkHmpOGM&ll=33.719786099184965%2C-84.41929504360473&z=12>
- https://en.wikipedia.org/wiki/Table_of_Atlanta_neighborhoods_by_population
- <https://www.gatech.edu/>
- <https://es.foursquare.com/>

So, with the JSON file we could find here, the study of the neighborhoods and the venues around are the most important sets that will direct the research.

3. Exploratory Data Analysis

As the distribution of the city is group:

- Neighborhood
- NPU, a local distribution for matching the neighborhoods in groups that are considered for the projects and future planning.

The neighborhood of Georgia Tech and Atlanta are as:

The distribution of the neighborhoods, looking the information supported by the government for 2010 makes Georgia Tech a complete Neighborhood with the 9th position as crowded inside the city.

```
In [498]: a = top_population[top_population.Neighborhood == 'Georgia Tech'].index.tolist()

from IPython.display import Markdown, display
def printmd(string):
    display(Markdown(string))
printmd('***Georgia Tech** is the {}th more crowded neighborhood of Atlanta '.format(a[0]+1))

Georgia Tech is the 9th more crowded neighborhood of Atlanta
```

And more relevant, the NPU **E** is the second crowded into this distribution, so this make the Georgia Tech Neighborhood that important due to be located near to downtown.

Venues in Georgia Tech's Neighborhood

```
In [503]: df_atlanta.Neighborhood[b[0]]

Out[503]: 'Ansley Park, Ardmore, Atlantic Station, Brookwood, Brookwood Hills, Georgia Tech, Home Park, Loring Heights, Marietta Street Artery, Midtown'
```

```
In [503]: b = df_atlanta[df_atlanta.NPU == npu_gatech[0]].index.tolist()

In [504]: printmd('***Georgia Tech** is part of the NPU **{}**, the {}th** more crowded district of Atlanta '.format(npu_gatech[0], b[0]+1))

Georgia Tech is part of the NPU E, the 2th more crowded district of Atlanta
```

As one of the most important educational centers, it is a big opportunity being there, focus in the possibilities around.

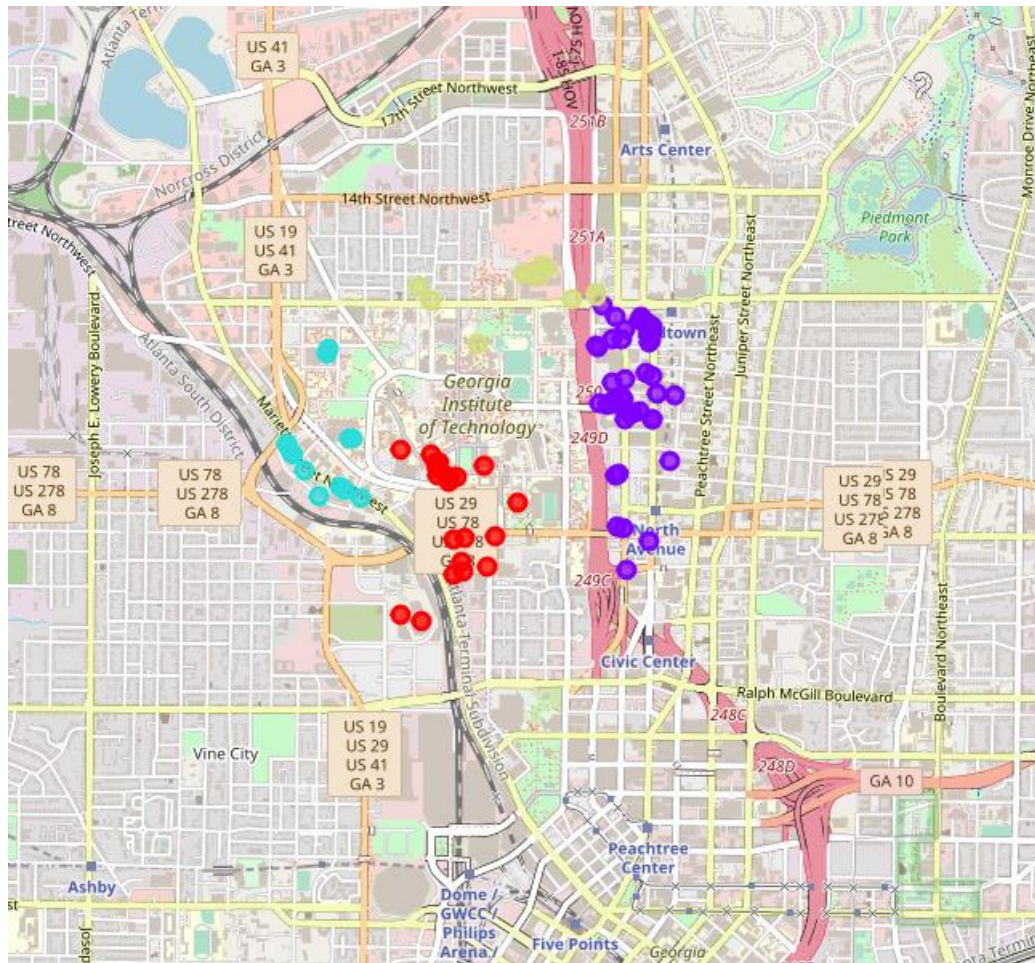
The study of the venues around, as foursquare provides, make the neighborhood as one of the most dynamic places; while making not a recommendation not to open a coffee related store due to be the most common venue nearby, at least that the offer could make a big difference compare to the now existing places.

```
neighborhoods_venues_sorted_by_commonness()
```

```
Out[515]:
```

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	Crowdedness
0	Georgia Tech	Coffee Shop	Hotel	Fast Food Restaurant	Sandwich Place	Athletics & Sports	Chinese Restaurant	Restaurant	Pizza Place	Café	Midtown

The distribution supported for these places are as follow.



Thus, it is possible to see that there are many places anyone could visits, Coffee related stores included that make a pleasant neighborhood for all you need.

4. Conclusions

No one doubts that great university Georgia Tech is, that relevant that is considered a whole neighborhood nearby downtown and the main places required for a good living into a dynamical society and the amenities required to make the best.

So, Georgia Tech offers great academical and living opportunities that makes it the 9th crowded neighborhood and be part of the 2th NPU.

Although it is not recommended to open any Coffee Store related nearby, due to many possibilities already open, if it is a final decision it is necessary to be sure it is offered a breaking market to make the difference.